

NEWS LETTER OF THE SOCIETY OF AMERICAN BACTERIOLOGISTS

Office of the Secretary-Treasurer

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1947 OFFICERS AND COUNCILORS

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Barnett Cohen, Editor-in-Chief, BACTERIOLOGICAL REVIEWS
 A. P. Hitchens, Editor, Section C., BIOLOGICAL ABSTRACTS
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The Council Advisory Committee (Constitutional Revision of 1946)

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ANNUAL MEETING FOR 1948

The 1948 Annual Meeting of the Society of American Bacteriologists will be held in Minneapolis, Minnesota, from May 10th. through the 14th. The chairman of the local committee is Dr. H. O. Halvorson of the Department of Bacteriology of the University of Minnesota. Dr. C. E. Skinner also of the University is treasurer of the local committee, and a fine group of actively interested, hard-working

bacteriologists of the area are associated with them in planning the next meeting.

The local committee expects to have a big smoker and get-together on Monday night, May 10th, at headquarters, located in the Nicollet Hotel.

The Nicollet Hotel has unusually good facilities for smaller and larger breakfasts and luncheons for Alumni or other groups. This very popular form of combining pleasure, business, and dining may exhaust even a large number of attractive rooms unless reservations are carefully planned and made in advance. Therefore, if any one wishes to hold a meeting in the name of any group, will he please reserve the space by writing to Dr. Anne Kimball, Minnesota State Board of Health, Minneapolis, Minnesota. The letter should state the number of persons expected to attend the breakfast or luncheon and express preference for date. So far the following groups have definitely signified for dates to hold meetings:

Ruttgers
Rothamsted Experiment Station

University of Wisconsin
Iowa State College

California

The meetings will close on Friday noon. Trips will be arranged for those who may wish to visit the Mayo Foundation and Clinics.

Due to changes in the printing to be made this year, it is impossible at this time to set a definite deadline for abstracts of papers to be presented at this meeting. However, authors should plan on getting their material to the program committee by February 15. Finally, instructions and a definite deadline will be published in the January News-Letter. It will be recalled that only members of the Society are entitled to present papers at the Annual Meeting.

UNESCO

In case you have forgotten, UNESCO stands for the United Nations Educational, Scientific, and Cultural Organization. In a recent issue of the News-Letter, we reported that a regional meeting of this group held at Philadelphia had been attended by Dr. Mudd and Dr. Turner as representatives of the SOCIETY. May 15, 16, and 17 a regional conference was held at Denver covering the Mountain-Plains region of the country. Dr. Carl E. Georgi of the Department of Bacteriology of the University of Nebraska at Lincoln attended this meeting in the dual capacity of delegate from the University and from the SOCIETY. He has submitted a report and has had sent to us the proceedings of the conference. It is beyond the province of the News-Letter to take up in detail the proceedings of the conference. Perhaps the most significant paragraph in Dr. Georgi's report is the following:

"The meeting was a very stimulating one. I went with some misgivings, but return completely converted and pledged to the objectives of UNESCO."

The SOCIETY is grateful to Dr. Georgi for his courtesy in representing us at this conference.

(In case our membership is not fully aware of the purposes of UNESCO it is suggested they order a copy of "UNESCO and You" which may be had from the superintendent of documents, U. S. Government Printing Office, Washington 25, D.C. for fifteen cents.)

FOURTH INTERNATIONAL CONGRESS OF MICROBIOLOGY

We publish herewith the report of the Fourth International Microbiological Congress as submitted by Dr. Robert S. Breed:

The Fourth International Microbiological Congress held in Copenhagen, Denmark, July 20 to 26, 1947, was much more successful than many of us believed possible under present world conditions. About 1,200 persons were in attendance, representing at

least 36 countries. No Germans, Austrians or Japanese were invited as peace treaties have not yet been signed with these countries. An invitation by Brazilian microbiologists to hold the next Congress in Rio de Janeiro in 1950 was accepted.

The purpose of those of us who went to the Congress hoping that progress could be made in standardizing the nomenclature used for bacterial species was richly fulfilled. The tentative Bacteriological Code of Nomenclature whose publication was authorized by the Congress held in New York in 1939 was accepted by the Judicial Commission appointed at that time with certain emendations proposed as the result of the publication of the Proposed Bacteriological Code of Nomenclature (Iowa State College Press, Ames, cost \$1.00. Edited by R. E. Buchanan and R. St. John Brooks).

The emended Code was then accepted unanimously first by the entire Nomenclature Committee and later by the Plenary Session of the Congress and will be published in the Proceedings of the Congress. These will appear in 1948, cost about 25 kroner (about \$5.00). Ten of the 14 members of the Judicial Commission were present and two were represented by alternates. There were 44 members or alternates from 20 countries present at the meeting of the Nomenclature Committee and this group asked and was made a Permanent Section on Classification (Taxonomy) for future Congresses.

The Judicial Commission was reconstituted as follows, each class to serve nine years:

Term ending in 1950: J. Howard Brown (Baltimore), A. R. Prevot (Paris), J. Ramsbottom (London), Th. Thjøtta (Oslo). 1953: R. E. Buchanan, Chairman (Ames), A. J. Kluver (Delft), E. G. D. Murray (Montreal), S. Orla Jensen (Copenhagen). 1956: A. Lwoff (Paris), E. Renaulx (Brussels), A. Sordelli (Buenos Aires), J. C. Penido (Rio de Janeiro). Ex officio: Permanent Secretaries: R. St. John Brooks (Lausanne) and R. S. Breed (Geneva). (Italics indicate those present at Copenhagen). C. B. Van Niel (Pacific Grove) and E. J. Morin (Quebec) were added to the Nomenclature Committee as members of the U.S.A. and Canadian delegations, respectively.

A conference was held which established a cooperative relationship between the Type Culture Collections of the World, headquarters to be at Lausanne, Switzerland. At this time the work of the Committee on Methods for Studying Pure Cultures of the Soc. Amer. Bact. was commended highly by European workers and was accepted as the basis for future cooperative work in this field.

Because of my personal preoccupation with matters dealing with nomenclature and classification, I heard only a few papers in the general and in the dairy sections. All section sessions seemed to be well attended and discussions were almost entirely in English or French. The banquet and two general receptions posed many problems for our Danish hosts, but were carried out beautifully in an atmosphere of informality pleasing to American and Canadian visitors.

A resolution* was adopted condemning bacteriological warfare and urging the release of data gathered by secret investigations during the war.

*(This resolution was as follows (Ed.- News-Letter):

"The Fourth International Congress for Microbiology joins the International Society of Cellbiology in condemning in the strongest possible terms all forms of biological warfare. The Congress considers such barbaric methods as absolutely unworthy of any civilized community and trusts that all Microbiologists throughout the world will do everything in their power to prevent their exploitation".)

Professor S. A. Waksman was given the Emil Hansen medal and an award of 5000 kr. for his investigations in the field of antibiotics. At a dinner given by Professor S. Orla-Jensen at the end of the Congress, Professor Waksman announced that the grant would be used for the support of work now being carried out by a Danish graduate student at New Brunswick.

It was a novel experience for some of us to attend a Congress in Europe, returning to our home within two weeks. I am grateful to those that made this experience possible. I can only hope that the progress made in making plans for bringing greater order in the field of nomenclature and classification will justify the funds expended.

Robert S. Breed.

PROCEEDINGS OF THE FOURTH INTERNATIONAL CONGRESS FOR MICROBIOLOGY

A number of members have inquired when proceedings of the Fourth International Congress for Microbiology would be available, what they will cost, and how they may be obtained. We regret that we can not give an answer to this question. Dr. Mogens Bjørneboe, Kommunehospitalet, Copenhagen, stated in a letter received a few weeks ago by Dr. Mudd:

"Printing is still rather difficult over here, and I do not think that I shall be able to publish the reports of the Congress before 1948. As soon as we know more about this matter we intend to send a post-card to everybody concerned."

Dr. Mudd, who is the representative of the SOCIETY to the International Association of Microbiologists, suggests that orders be sent directly to Dr. Bjørneboe. It seems to us that this would serve to place one on the list which will be circularized later when definite information is available. We regret that this office can not take orders for these reports, but you may be assured that we will publish information about them whenever such is available.

AMERICAN TYPE CULTURE COLLECTION

The American Type Culture Collection, located at Georgetown University School of Medicine for the past ten years, is now established in a laboratory of its own at 2029 M St., N.W., Washington 6, D. C.

The staff consists of: Dr. Ruth E. Gordon, Curator; Miss Isabel Christison, Mycologist; Mrs. Ruth Davis, Bacteriologist; and Mrs. Katherine Alvord, Secretary and Business Manager.

Dr. Ralph St. John-Brooks, retired Curator of the National Collection of Type Cultures, Lister Institute, London and present Permanent Secretary of the International Association of Microbiologists and Collaborator of the Centre de Collection de Type Microbiens, is returning from Switzerland in November and will occupy an office in the new laboratory.

The task of examining the cultures of the Collection, approximately 4000, for viability and purity begun in 1944 is nearly finished. A complete catalogue of the American Type Culture Collection strains will be published as soon as possible after the appearance of the 6th edition of Bergey's Manual.

An appreciative acknowledgment is made by the staff for the generous assistance given by many microbiologists, particularly those of the laboratories in the District of Columbia area, the Northern Regional Research Laboratory and the National Collection of Type Cultures. Relying on this invaluable assistance, the staff hopes to attain satisfactory performance of its duties of maintaining and distributing cultures of bacteria, fungi, yeasts and actinomycetes.

ELI LILLY AND COMPANY AWARD FOR 1948

Ten Eli Lilly and Company Awards have been made since the grants were set up. The recipients are listed in the new Directory. There are two committees which select the man or woman who will receive the award. One of these is the nominating committee and the other is the awards committee. Three societies cooperate in this project,--the American Association of Immunologists, the American Society of Experimental Pathology, and the SOCIETY. The chairman of the nominating committee is Dr. John G. Kidd, Department of Pathology, Cornell University Medical College, New York, N.Y. To him should be addressed inquiries concerning the award or completed records on individuals nominated. His committee screens the eligibles suggested and passes on to the awards committee the names and records for final selection.

To be eligible for the award, a nominee shall not have passed his thirty-fifth birthday on April 30th of the year of the award and shall have accomplished outstanding research in bacteriology or immunology. The award consists of a check for one thousand dollars, a medal suitably inscribed, and expenses not to exceed one hundred and fifty dollars involved in attending the annual meeting at which the award is made. The recipient presents the results of work, upon which the award is presumably based, before the general scientific session of the SOCIETY and that presentation is usually published either in the JOURNAL or in REVIEWS. Last date for receiving nominations will be announced in the January News-Letter. Last year it was February 7th. It will be approximately the same this year. Nominations should be prepared very shortly.

ADDRESS UNKNOWN

Inevitably, our new Directory is incomplete. Since its final consignment to the litho-printers, there have been many new members and a large number of changes of address. The office made an effort to include as many of these as possible in the Directory by submitting at the last possible date a supplementary list which appears on the last four pages of the Directory. Even with this addition, the Directory is not complete for new members or changes of address received after July 24, 1947. We very sincerely regret the impossibility for the production of a mere up to the minute Directory and wish for our successor who publishes the 1949 Directory a more stabilized active membership as regards changes of address.

One of the categories which we particularly regret is that we call "first class mail returned". Obviously, the addresses in the Directory for these individuals are incorrect. We would not wish this category to grow beyond reasonable limits in a membership of 3,500 individuals. The names and addresses of these individuals as we have them are listed below, and the membership is requested in so far as it may be able to furnish us with correct addresses for the individuals concerned.

Auerbach, Harry, Capt. Sn.C., 219th. Gen. Hosp., A.P.O. 957, P.M., S.F., Calif.
 Baker, Miss Martha, Box 373, Coushatta, Louisiana
 Bloom, Walter Lyon, Department Int. Med., Yale Univ., New Haven, Conn.
 Boeing, Mr. Paul J., Jr., 4th. Ser. Comm. Med. Lab., Fort MacPherson, Georgia
 Bosman, Lt. Robert I., A.P.O. 929, 171 Sta. Hosp., San Francisco, California
 Brooks, Abraham J., 193 Sta. Hosp., A.P.O. 603, P. M., Miami, Florida
 Brooker, Miss Rosalind Ellen, 330 1/2 No. Walnut St., Lansing, Michigan
 Busch, Miss Narcille, Box 6035, Univ. Sta., Baton Rouge, Louisiana
 Carlson, Miss Bonita, 3159 Commodore Plaza, Coconut Grove, Miami, Florida
 Christensen, W. Blake, 1631 Mardell Boulevard, San Antonio 1, Texas
 Cole, Harvey, 3251 Washington Blvd., Apt. 606, Chicago, Illinois
 de la Cruz, Arcadio C., 147 Ralph Street, San Antonio, Texas
 Deitz, Miss Helen C., 419 No. Broadway, Baltimore 31, Maryland

Dolin, Mr. Morton, Department of Bact.; Univ. of Kentucky, Lexington, Kentucky
 Duran, Manuel F., 115 W. Chestnut St., Medical Dormitories, Louisville, Kentucky
 Eveland, Maj. Warren C., Chief, Bact. Section Lab., Ft. Benjamin Harrison, Indiana
 Flanders, Ruth E., 610 No. First East, Salt Lake City, Utah
 Garman, Richard A., 605 4th St., West Pittston, Pennsylvania
 Gee, Haldane, Schering and Glatz, Inc., 113 W. 18th St., New York, N. Y.
 Gilman, Edward N., 2nd Med. Lab., A.P.O. 464, % P. M., New York, N. Y.
 Jacobs, W. L., % General Delivery, Louisville, Kentucky
 Katz, Lt. Paul, Sta. Hosp., Indiantown Gap Mil. Res., Pa.
 King, Arthur N., U. S. Naval Hosp., Treasure Island, San Francisco, California
 Krohn, Lt. Tave T., 99th Gen. Hosp., A.P.O. 1350, % P. M., New York, N. Y.
 Lewis, Milton L., P. O. Box 307, Univ. of Miami, Coral Gables, Florida
 McDermott, Peter H., 2358 Forbes St., Jacksonville, Florida
 Moeller, Miss Velma H., 5712 Kenwood, Chicago 37, Illinois
 Onslow, Jeane M., 222 Albion Place, Cincinnati, Ohio
 Orwick, Francis, % Dr. Marshall & Jensen, Box 409, Twin Falls, Idaho
 Owen, William, Jr., 319th Infantry, 80th Division, Personnel Section, A.P.O. 80,
 % P. M., New York, N. Y.
 Plunkett, Agnes, 611 No. Sheldon St., Lawrenceburg, Indiana
 Ragno, Lt. Stephen L., 80th Cml. Mortar Bn. Mitz., A.P.O. 74, % P.M., San Francisco,
 California
 Reese, James W., 111 Mound St., Madison 5, Wisconsin
 Rosen, Merton N., 2631 Durant Ave., Berkeley, California
 Ross, Charles A., Dep't. of Pharmacology, Medical Sch., Univ. Illinois,
 1853 W. Polk St., Chicago, Illinois
 Roysdon, Mrs. J. P., 212 Buchanan St., Alexandria, Virginia
 Schlecht, John S., 1436 Neil Ave., Apt. 11, Columbus 1, Ohio
 Schuyler, Lt. Leonard H., 65th Gen. Hosp., A.F.O. 587, % P.M., New York, N.Y.
 Schweitzer, Sgt. Donald K., 763 Chem. Dep. Co. Ann., A.P.O. 635, % P.M., New York, N.Y.
 Smith, D. L. T., Bact. Dep't., Queens Univ., Kingston, Ontario, Canada
 Stadnichenko, Vera M., Glenn Dale Sanatorium, Glenn Dale, Maryland
 Stewart, Edgar A., % Borden's Dairy, 3319 Florida Avenue, Tampa, Florida
 Tollstrup, Jeanne, 1144 So. 17th East, Salt Lake City, Utah
 Wahlin, Joel G., Sch. of Med., Univ. of Arkansas, Little Rock, Arkansas
 Willmert, Lt. Gertrude P., W-V(S) (H) USNR, W.O.Q. Cedar St., U. S. Navy Yard,
 Mare Isl., California
 Wolochow, Hyman, Field Exp. Sta., Suffield, Alberta, Canada

MEMBERSHIP: RENEWALS: 1948 DUES

To date 1631 active members have paid their 1948 dues. This includes 95 new members whose subscriptions to the publications of the SOCIETY begin with 1948. While this is most gratifying there are still almost as many more active members on our lists who have yet to make payment for 1948. Our active membership as of November 17 was 3195 of whom 817 are women. Of our 95 sustaining members all but 16 are as of the moment fully paid up for 1948. Among these active members are 54 who have not paid since 1945. Their names will be dropped from the rolls in January of 1948 if they have not renewed prior to that time. They will receive another notice before being separated from the membership. There are 76 who have not renewed for either 1947 or 1948 but paid for 1946. In addition there are 25 individuals classed "No response." They have not answered first class mail and it has not been returned. There are 46 classed as "First class mail returned." It is hoped that many of these categories will respond in the next two months for we will regret to take their names from the rolls. The growth of the SOCIETY continues rapid. There have been 593 new active members thus far in 1947. If any member has not received a notice of 1948 dues he should know that such oversight was unintentional. We hope he will send in his \$7.50 dues for 1948. It would also be a favor to the office if those

who do not intend to continue membership would so inform us. There are often good reasons for such a step and we always respect them. We do not like to give out figures relative to membership which are padded with an unduly large number of non-paying members (in arrears), particularly if these members do not intend to continue in the SOCIETY.

COMMITTEE ON MATERIALS FOR VISUAL INSTRUCTION IN MICROBIOLOGY

The following lantern slides have been added to the collection of the Committee and are available by purchase or rental in either the 3-1/4 x 4 or 2 x 2 inch sizes. Black and white prints up to 8 x 10 inches are available by purchase. Mimeographed legends accompany each slide or print.

Lantern slide No.	Subject
LS-171	- Electron micrograph of <u>Actinomyces coelicolor</u> .
LS-172	- Electron micrograph of <u>A. viridis</u> .
LS-173	- Electron micrograph of <u>Bacillus acetobutylicus</u> .
LS-174	- Electron micrograph of <u>Staphylococcus aureus</u> .
LS-175	- Electron micrograph of Newcastle virus, strain B.
LS-176	- Electron micrograph of Newcastle virus, California strain.
LS-177	- Electron micrograph of Newcastle virus, California strain shadowed with chromium.
LS-178	- Photograph of blowing the last drop of water from a 10 ml pipette.
LS-179 and 180	- Photograph of blowing the last drop of suspension of <u>Serratia marcescens</u> from a 5 ml pipette.
LS-181	- Photograph of blowing the last drop of suspension of <u>Serratia marcescens</u> from a 1 ml volumetric pipette.
LS-182	- Photograph of blowing the last drop of suspension of <u>Serratia marcescens</u> from a 5 ml pipette.
LS-183	- Photograph of blowing the last drop of suspension of <u>S. marcescens</u> from a milk pipette.
LS-184	- Photograph of blowing the last drop of suspension of <u>S. marcescens</u> from a pipette into a Petri dish.
LS-185	- Photograph of droplets of suspension of <u>S. marcescens</u> escaping into the air when a rubber stopper was pulled from a dilution bottle.
LS-186	- Photograph of a chart illustrating the early contributions of Theobald Smith to Bacteriology.
LS-187	- Electron micrograph of <u>Pseudomonas aeruginosa</u> .
LS-188	- Electron micrograph of <u>Pseudomonas denitrificans</u> .
LS-189	- Electron micrograph of <u>Pseudomonas mildenbergii</u> showing cell division.
LS-190	- Electron micrograph of <u>Pseudomonas mildenbergii</u> showing lophotrichous flagella.
LS-191	- Photograph of Bacterial Satellitism of Colonies of <u>Hemophilus influenzae</u> around Colonies of <u>Staphylococcus aureus</u> .
LS-192, 193	- Electron micrographs of the elementary bodies of feline pneumonitis and of the elementary bodies shadowed with gold.
LS-194	- Electron micrographs of the elementary bodies of the virus of mouse pneumonitis.
LS-195	- Electron micrographs of the elementary bodies of the virus of human pneumonitis, SF strain.
LS-196	- Electron micrographs of the elementary bodies of the virus of human pneumonitis, SF strain, shadowed with gold.
LS-197	- Electron micrographs of the elementary bodies of the virus of meningo-pneumonitis.
LS-198	- Electron micrographs of the elementary bodies of the virus of meningo-pneumonitis shadowed with uranium.
LS-199	- Electron micrographs of the elementary bodies of the virus of ornithosis.

- LS-200 - Electron micrographs of the elementary bodies of the virus of psittacosis.
 LS-201 - Electron micrographs of the elementary bodies of the virus of psittacosis treated with ether.
 LS-202 - Electron micrographs of the elementary bodies of the virus of lymphogranuloma inguinale.

The following motion picture films have been reviewed under the auspices of the Committee. Abstracts of the films are available at the rate of three cents each from the Chairman of the Committee.

<u>Number of Abstract</u>	<u>Title of Film</u>	<u>Length</u>	<u>Production Date</u>
139	- Interdependence of living things, B&W, Si.	400	1930
140	- Natures Vintage. (wine making), Co., So.	720	1945
141	- The Production of Wine, Co., So.	600	1946
142	- Pasteur's Legacy, B&W, So.	800	1946
143	- Life Cycle of the Mosquito, B&W, So.	400	?
144	- Milk Processing, B&W, So.	840	1946
145	--Cleaning Equipment and Containers (Dairy plant Sanitation), B&W, So.	1015	1946
146	- The Growing and Canning of Pineapple by the Hawaiian Canneries Co., Ltd., of Kapaa, Kauai, Territory of Hawaii, Co., Si.	1600	?
147	- Come Out of the Kitchen (commercial production of soup), B&W, So.	900	?

A complete list of all the motion picture films reviewed to date under the auspices of the Committee may be obtained by writing to the Chairman of the Committee. -

Norman F. Laffer

W. W. Smith

Harry E. Morton, Chairman.

LOCAL BRANCH NEWS

Southern California Branch (Charles F. Pait, Acting Secretary-Treasurer)

At a meeting held on the evening of May 22nd at the White Memorial Hospital, College of Medical Evangelists, Los Angeles, the following scientific program was presented:

1. Chemotherapy of tuberculosis in intravenously infected chick embryos, by Abram B. Stavitsky and Henry F. Lee, California Institute of Technology, Pasadena.
2. In vivo antibacterial activity of hexenolactone, by Charles W. Johnson and James W. Bartholomew, University of Southern California, Los Angeles.
3. Electronic preservation of Boston Brown Bread, by James W. Bartholomew, University of Southern California, Los Angeles, and R. G. Harris of Texaco Oil Company, Long Beach.
4. Report of a relatively severe and protracted diarrhea presumably due to Salmonella pullorum from the ingestion of incompletely cooked eggs, by T. F. Judefind, College of Medical Evangelists, Loma Linda.
5. Effect of microorganisms on permeability of soils under prolonged submergence. An illustrated lecture by Dr. L. E. Allison, of the U. S. Regional Salinity Laboratory, Riverside.

At a meeting held on the campus of the University of California at Los Angeles on October 30th the following officers were elected: Dr. Robert E. Hoyt, President; Dr. Charles F. Pait, Vice-President; Dr. Meridian R. Ball, Secretary-Treasurer; Dr. Anthony J. Salle, Councilor. The following paper was presented:

1. Problems of the viral and rickettsial fields, by Dr. Herald Cox, Lederle Laboratories, Pearl River, New York.

Illinois Branch (J. H. Richardson, Secretary-Treasurer)

The Spring Meeting was held on Friday, April 11th at the Museum of Science and Industry, Chicago. The scientific programs presented follows:

1. Inhibition of bacterial growth in the presence of massive doses of a vitamin by Stewart A. Koser, Ph.D., and George J. Kasai, University of Chicago, Chicago.
2. Atypical reactions in the enteric group, by Kenneth Bass, Illinois Department of Public Health, Chicago.
3. Laboratory studies on the epidemiology of poliomyelitis, by F. B. Gordon, M.D.; F. M. Schabel, Jr., Albert E. Casey, M.D., William I. Fisbein, M.D., University of Chicago and Chicago Health Department.
4. Problems in the control of respiratory diseases, by C. G. Loosli, M.D., Director, Student Health, University of Chicago.

At the Fall Meeting of the Illinois Branch, held at the Urbana-Lincoln Hotel, Urbana, on Saturday, October 25th, the following program was given:

1. Deep mycotic infections in Illinois, by Esther Meyer, Ph.D. and Marvin Kagen, M.D., Department of Bacteriology and Public Health, University of Illinois College of Medicine, Chicago.
2. Studies of the mode of action of streptomycin. The nature of streptomycin inhibitor occurring in brain tissue and plant extracts, by Ione Rhymer, Ph.D. and G. I. Wallace, Ph.D., Department of Bacteriology, University of Illinois, Urbana.
3. Some effect of metallic ions on lactobacilli, by Muriel H. Svec, Ph.D. and Milan V. Novak, M.D., Ph.D., Department of Bacteriology and Public Health, University of Illinois College of Medicine, Chicago.
4. The occurrence and diagnosis of Newcastle disease of poultry in Illinois, by Paul D. Beamer, D.V.M., and A. K. Sutherland, College of Veterinary Medicine, University of Illinois, Urbana.

Indiana Local Branch (Alfred Stanley, Secretary-Treasurer)

The scientific program presented on October 17th at the Ball State Teachers College, Muncie, is as follows:

1. The newer knowledge of lysozyme and bacteria, by S. E. Hartsell, Purdue University, Lafayette.
2. Corn steep liquor in microbiology, by Heinrich Koffler, Purdue University, Lafayette.
3. Antibiotic behavior patterns of living cultures of Pseudomonas, by R. L. Kent, Indiana Central College.
4. The World Influenza Center in London, by H. M. Powell, Eli Lilly and Company, Indianapolis.
5. The use of self attenuated influenza virus vaccine intranasally in Swiss mice, by H. M. Powell and W. A. Jamieson, Lilly Research Laboratories, Indianapolis.
6. Examination of food and drugs in the laboratories of the Indiana State Board of Health, by Glen C. Weber, Indiana State Board of Health, Bloomington.
7. Observations on the chemical nature of the hemo-lytic and lethal factors of Clostridium hemo-lyticum toxin, by R. C. Bard and L. S. McClung, Indiana University, Bloomington.
8. Motion Picture: Pasteur's Legacy. Various aspects of Pasteur's research are depicted. Attention is directed to some of the work of the Pasteur Institute by showing some of their research and production methods. There are some very good scenes demonstrating microdissection.

Maryland Branch (Patricia Haugh, Secretary)

At the invitation of the group at Camp Detrick, the Maryland Branch and their guest, the Washington (D.C.) Branch, met on October 18th at Camp Detrick, Frederick, Maryland. The following papers were given:

10.

1. Actinomycosis due to Nocardia asteroides by C. H. Binford, U. S. Marine Hospital, Baltimore, Maryland.
2. Experimental toxoplasma infection in the embryonated egg, by Joel Warren and Sudie B. Russ, Army Medical Department, Research and Graduate School, Washington, D. C.
3. A contrasting stain technique for the direct microscopic examination of dairy product, by Franklin W. Barber, National Dairy Research Laboratories, Inc., Baltimore, Maryland.
4. Naturally occurring Histoplasmosis in Mus musculus and Rattus norvegicus, by C. W. Emmons and J. A. Bell and B. J. Olson, National Institute of Health, Bethesda, Maryland.
5. Observations on the absorption of inhaled penicillin, by Eleanor A. Bliss, Catherine E. Wilson, and Douglas Carroll, Army Chemical Center, Edgewood, Md., and Johns Hopkins Hospital, Baltimore, Maryland.
6. The in vitro assay of tyrothricin, by Robert J. Reedy, Division of Penicillin Control and Immunology, Food & Drug Administration, Washington, D.C.
7. Quantitative studies on the hemolytic activity of complement, by Manfred M. Mayer, School of Hygiene and Public Health, Johns Hopkins University, Baltimore, Md.
8. Unusual pathogenicity of Pasteurella multocida isolated from the throat of common wild rats, by Gerald J. Schipper, Biological Division, Johns Hopkins Hospital, Baltimore, Maryland.
9. Case reports of Brucella infection incurred by personnel in the Pathological Division of the Bureau of Animal Industry, by A. B. Crawford, Bureau of Animal Industry, Beltsville, Maryland.
10. Influenza virus associated with pneumococcus pneumonia, by Elisabeth Starbuck Maxwell, Thomas G. Ward and Glen R. Leymaster, School of Hygiene and Public Health, Johns Hopkins University, Baltimore, Maryland.

Michigan Local Branch (Elizabeth J. Cope, Secretary-Treasurer)

The local group met on October 2nd at Michigan State College at which time the following program was presented:

1. Presence of Hemophilus pertussis antibodies in normal laboratory animals, by Paul Fugazotto, Michigan Department of Health, Ann Arbor.
2. Potentiation of the complement antibody system of sulfonamides, by I. F. Huddleson, Michigan State College, East Lansing.
3. Newcastle disease virus studies, by I. W. McLean and H. Salk, Parke-Davis and Company, Detroit.
4. The effect of cecectomy on intestinal flora of white rats, by Shirleybell McClure.

New York City Branch (John E. Blair, Secretary-Treasurer)

The following program was presented at the forty-first meeting of the New York City Branch, held at Columbia University College of Physicians and Surgeons, October 28th:

1. A method for the co-precipitation of bacterial antigens from filtrates of pathogenic organisms, with special reference to beta hemolytic streptococci, by Joseph Hoffmann, Department of Bacteriology, Hope Dell, Preakness, New Jersey.
2. Treatment of chronic brucellosis with bacterial antigen complexes of the three species of brucella. Preliminary report, by Harold J. Harris, New York City.
3. Sidelights on a survey of media for the cultivation of gonococci, by Leonore R. Peizer, Bureau of Laboratories, New York City Department of Health.
4. Analysis of data relative to multiple serologic tests for syphilis, by Daniel Widelock, Bureau of Laboratories, New York City Department of Health.
5. Quantitative studies of complement activity, by A. G. Osler, M. N. Mayer and Michael Heidelberger, Bureau of Laboratories, New York City Department of Health and Presbyterian Hospital.
6. An unusual strain of Pseudomonas aeruginosa, by Lewis H. Schwarz and Joseph Lazarus, New York City.

Ohio Branch (H. H. Weiser, Secretary-Treasurer)

The Autumn Meeting was held on October 25th at Ohio State University and the following papers given:

1. Practical aspects of food poisoning investigations, by Joseph H. Drayer, Columbus Board of Health, Columbus.
2. Comparison of the disinfecting properties of hypochlorite and quaternary ammonium compounds, by T. G. Hawley, Plymouth Laboratories, Inc., The Diversey Corporation Chicago.
3. The *in vitro* evaluation of oral disinfectants containing quaternary ammonium salts, by M. J. Foter, Jeane Carter and Lester Nisonger, Bacteriological Research Division, The Wm. S. Merrell Company, Cincinnati.
4. Variations in cecal flora in strain "A" mice fed natural or synthetic diets, by Lorraine Gall, Ohio Agricultural Experiment Station, Animal Disease Research Laboratories, Reynoldsburg.
5. Fatty acid metabolism in the mycobacteria in relation to growth in the Dubos type medium, by Clarke T. Gray and Jorgen M. Birkeland, Department of Bacteriology, The Ohio State University, Columbus.
6. Bacterial significance of municipal water purification experience in employing high alkalinities such as encountered in lime-soda softening, by F. H. Waring, Sanitary Engineer, Ohio Department of Health, Columbus.
7. The differentiation between vaccinal and infection titers of *Brucella abortus* in cattle, by Walter G. Venzke, Department of Preventive Medicine, College of Veterinary Medicine, Ohio State University, Columbus.
8. Influence of the amount of blood injected on the titer of iso-immune sera in cattle, by Lloyd C. Ferguson, Department of Bacteriology, Ohio State University, Columbus.
9. A serological test for staphylococcal infections, by Charles H. Rammelkamp, Department of Preventive Medicine, Western Reserve University, Cleveland.
10. Cultivation of toxoplasma in the developing chick embryo, by John O. MacFarlane and Isaac Ruchman, Cincinnati General Hospital, Cincinnati.
11. Immunization against scarlet fever with tannic acid precipitated erythrogenic toxin, by Morris Schaeffer, Division of Contagious Diseases, City Hospital, Cleveland.
12. The evaluation of performance of serodiagnostic tests for syphilis, by H. Stegmiller, C. C. Kersell and Leo F. Ey, Division of Laboratories, Ohio Department of Health, Columbus.
13. Bacteriologic studies of the epidemic of poliomyelitis, Akron, 1947, by Edward C. Rosenow, Bacteriological Research Laboratory, Longview Hospital, Cincinnati.

The banquet speaker was Robert F. Parker, Department of Medicine, Western Reserve University, Cleveland, whose topic was "Modern Man and Antibiotics."

Eastern Pennsylvania Chapter (Amedeo Bondi, Jr., Secretary-Treasurer)

The first meeting of the current season was held on October 28th in the auditorium of the Philadelphia County Medical Society Building. Scientific program follows:

1. The synergistic or additive activity of chemotherapeutic compounds, by Dr. John A. Kolmer, Temple University School of Medicine and The Research Institute of Cutaneous Medicine, Philadelphia.
2. Studies on the inhibition of a bacteriophage multiplication by salicylate, by Dr. John Spizezen, Sharp and Dohme Laboratories, Glenolden.
3. A strain of *Gliocladium* which destroys cellulose, by Mr. Scott V. Covert, Department of Botany, University of Pennsylvania, Philadelphia.
4. Tryptophane metabolism by sulfonamide-resistant and sulfonamide-susceptible strains of *Staph. aureus*, by Mr. Edward Steers and Dr. M. G. Sevag, Department of Bacteriology, School of Medicine, University of Pennsylvania, Philadelphia.

Washington (D.C.) Branch (W. Bohrer, Secretary-Treasurer)

The Washington Branch, as guests of the Maryland Branch, met at Camp Detrick, Frederick, Maryland on October 18th. The scientific program presented is listed under the Maryland Report.

NEW LOCAL BRANCH OFFICERS

	President	Vice-President	Secretary-Treasurer	Councilor
Southern California	Robert E. Hoyt	Charles F. Pait	Meridian F. Ball	A. J. Salle
Illinois	H. W. Cromwell	E. S. Clark	J. H. Richardson	H. J. Shaughnessy
Michigan	J. T. Tripp	Grace Eldering	Elizabeth Cope	John F. Norton
Ohio	Orton H. Stark	John Dingle	H. H. Weiser	Robert F. Parker
Texas	Kenneth L. Burdon	J. V. Irons	Edwin A. Johnson, Sec.	Orville Wyss
			R. M. Pike, Tr.	
Northwest	E. J. Ordal	-	Esther Duchow	R. E. Hungate

NEWS NOTES

Abbott Laboratories, Eli Lilly and Company, Parke Davis and Company, and the Upjohn Company have combined to grant a sum of money to the University of Michigan to permit completion of experimental research and investigation of the synthesis of penicillin and related compounds. The SOCIETY is gratified at the support our Sustaining Members continue to give to the prosecution of basic research.

Allen, Robert M., formerly of the University of Minnesota, has been appointed assistant professor of bacteriology at the College of Medicine of the University of Nebraska.

Avery, Oswald T., Past President and Honorary Member, was recently signally recognized by his colleagues when he was granted a Lasker Award at the 1947 Annual Meeting of the American Public Health Association held the second week in October in Atlantic City.

Bengtson, Ida A., was on November 3rd awarded the United States of America Typhus Commission Medal. The citation was read by Dr. R. E. Dyer, Director of the National Institute of Health and the medal was presented by Dr. Thomas Farran, Surgeon-General. Following the ceremony tea was served at Top Cottage to those who had assembled for the ceremony.

Berry, George Packer and Bibby, Basil G., will be associated at the University of Rochester School of Medicine and Dentistry and the Eastman Dental Dispensary in a planned program of dental research directed toward the biochemical aspects of dental caries, with special emphasis on the possible importance of proteolytic bacteria in the causation of caries. This work, in which J. E. Gilda will assist, is contracted for by the Army Medical Research and Development Board. Participation by selected Dental Corps officers will be a feature of this work. The first officer to be so assigned is Capt. George W. Burnett, D.C.

Bondi, Jr., Amedeo, formerly of Temple University School of Medicine is now Professor and Head of the Department of Bacteriology at Hahnemann Medical College.

Carpenter, Charles M., of the University of Rochester was among S.A.B. members who attended recent meetings of the American Public Health Association at Atlantic City. Some members brought their wives, some came alone, but Charles brought his bride. Congratulations.

Carworth Farms publishes a four page quarterly letter which is good reading. C. N. Wentworth Cumming and F. G. Carnochan are to be commended for their efforts in this direction.

Coggeshall, Lowell T. and R. Wendell Harrison. A significant University of Chicago administrative move was made recently when Dr. Harrison became Vice-President of the University and Dr. Coggeshall was appointed Dean of the Division of Biological Sciences to succeed Dr. Harrison. When last seen by us these gentlemen had a Washington Big-Wig pinned down at a table at the Cosmos Club, plotting we suspect new onslaughts on malaria.

Colmer, Arthur R., formerly of West Virginia, long time home of our Emeritus member Robb Spalding Spray, is now associate professor of bacteriology at Louisiana State University at Baton Rouge.

Dack, Gail M., presided October 8 at Atlantic City at the quarterly meeting of the Bacteriology Study Section of the U.S.P.H.S. Among those in attendance were P. R. Carlquist, representing the Army, Leland W. Parr, representing the Veterans Administration, and regular members Stuart Mudd, Walter J. Nungester and Charles E. Smith. The meeting was scheduled in the A.P.H.A. program and several interested individuals showed up who had to be tactfully directed away. The Study Section meetings are "Top Secret", don't you know! Seriously, the contribution made by the U.S.P.H.S. in sponsoring research projects is one of the most significant moves of the present era.

Eagle, Harry, has been appointed Scientific Director of the National Cancer Institute, U. S. Public Health Service, Bethesda, Maryland. Dr. Eagle was formerly Director of the Laboratory of Experimental Therapeutics of the U.S. Public Health Service and the Johns Hopkins University School of Hygiene and Public Health and Adjunct Professor of Bacteriology in the latter. Dr. Eagle in 1936 received the first of the Eli Lilly and Company Awards in Bacteriology and Immunology administered by the American Association of Immunologists, the American Society of Experimental Pathologists, and the SOCIETY.

Francis, Jr., Thomas was recipient of a Lasker Award at the recent meeting of the American Public Health Association. He has also been honored by inclusion in the list of distinguished professorships recently announced by the University of Michigan. He is now the Henry Sewall Professor of Public Health.

Goriup, Othmar Frank, chief, Allotment and Requirement Branch, Medical Personnel Division, Office of the Air Surgeon, has been appointed the first chief of the recently created Medical Service Corps, Army Medical Department, with the rank of full Colonel. At the ceremony connected with Col. Goriup's "swearing-in" held at the Pentagon in the Office of the Surgeon-General, the SOCIETY was represented by the Secretary-Treasurer.

Hansen, Paul Arne, formerly associate bacteriologist in charge of a field station for the U.S. Department of Interior at Hampton, Virginia, has been appointed Associate Professor in the Department of Bacteriology at Iowa State College.

Huddleston, I. Forest, Professor of Bacteriology at Michigan State College has recently reported a new treatment for brucellosis which has attracted considerable attention. This treatment involves a new application of the sulfa drugs in that whole blood is injected into the patients' system, sulfadiazine then being administered in small amounts for seven days. This procedure is based on Huddleston's original theory that the drug does not actually destroy the germs but increases the action of the serum antibodies thus controlling the infection.

McClung, L.S., is chairman of the new Department of Bacteriology at Indiana University. Bacteriology was formerly combined with Botany. Among the new appointments are I.C. Gunsalus, Professor and Hebert J. Welshimer, Instructor. S.E. Luria has been promoted to Associate Professor and announcement has been made that C.F. Robinow, noted English investigator, will be Visiting Professor during the spring semester of the present academic year. Tentative plans are being developed for a conference on problems relating to bacterial morphology and cytology during May, 1948. Those interested in this conference are requested to write to Professor McClung. Recent grants from the Research Grants Division of the U. S. Public Health Service and from the American Cancer Society have materially strengthened the research program of the new department.

Morton, Harry E., Chairman of the SOCIETY committee on Materials for Visual Instruction in Microbiology (see elsewhere in this issue), also well known as 1947 Local Committee Chairman for the Annual Meeting reports October 10, that the Philadelphia meeting attained one mark of excellence never before attained nor soon to be repeated. Quote: "The New Yorker, last week, saw fit to call attention to the notice of the Neisserian Dinner in the Green Room at the meetings last May."

Mudd, Stuart (Past President), School of Medicine, University of Pennsylvania, was elected as the American Delegate of the Executive Committee of the International Union of Biological Sciences at its 11th General Assembly held on July 28 at the Royal Danish Academy of Science, Copenhagen.

Packchianian, A., Professor of Bacteriology and Parasitology and Director of the Laboratory of Microbiology in the Medical Division of the University of Texas at Galveston is scheduled to present a paper entitled "The Epidemiology, Prevention and Treatment of Leishmaniasis" at the Second Mexican Congress of Medicine to be held in Mexico City November 2 to 15.

Paul, John R., Yale University School of Medicine delivered the Gehrman Lectures at the Chicago Professional Colleges of the University of Illinois on November 19-20. He spoke twice, dealing with poliomyelitis, its epidemiology and its clinical manifestations.

Piiper, Adrianus, Institute for Pathology, Pretoria, South Africa has graciously sent the office of the secretary-treasurer two packages of duplicate copies of the SOCIETY publications which he happened to have received through a combination of membership and gift. These are deeply appreciated and some numbers have already been used to supply deficiencies in member's files. Other members please note.

Rosebury, Theodor, Columbia University, spoke October 3 to the Philadelphia Branch American Association of Scientific Workers on the subject: "Bacterial warfare and the problems of peace."

Sawyer, Wilbur A., is Executive Secretary, Fourth International Congresses on Tropical Medicine and Malaria, Division of International Conferences, of the Department of State. The Congresses in question are scheduled for May 10-18, 1948 and will be held in Washington. It is unfortunate that this is a conflicting date as far as the SOCIETY is concerned. Our delegates to these Congresses as appointed by President Francis will be announced in the next News Letter.

Seagram and Sons, Inc., Joseph E., Sustaining Members in Louisville announce: "Dr. W. E. Stark, who has been associated with Joseph E. Seagram and Sons, Inc. for the last eight and a half years, three and a half of which were spent as Director of Research, is leaving for Montreal, Canada where he will take the position of General Manager of Vickers-Vulcan Process Engineering Company, Ltd. Dr. Paul J. Kolachov, previously Technical Counselor at Joseph E. Seagram and Sons, Inc., is taking over the position of Director of Research."

Sharp and Dohme, Inc., Sustaining Members in the Philadelphia area announce that William A. Feirer, formerly vice-president in charge of medical research, has been elected executive vice-president and a director of the company.

Soule, Malcolm H., of the University of Michigan, announces as Secretary of Section (N) of the American Association for the Advancement of Science that his section will present a Symposium on Antibiotics at the A.A.A.S. annual meeting to be held December 29 and 30 in Chicago at the Hotel Sherman.

Smith, Kline & French Laboratories, Sustaining Members in the Philadelphia area, announce the appointment of Maurice L. Moore, Ph.D., as Director of Research Laboratories to fill the post made vacant by the death in 1946 of Dr. Walter G. Karr.

Speck, Marvin L., has resigned his position with National Dairy Research Laboratories, Inc., Baltimore, to accept the position of Associate Professor in charge of Dairy Bacteriology at North Carolina State College, Raleigh.

Stiles, George W., head, Pathological Laboratory, Bureau of Animal Industry, U.S. Department of Agriculture, Denver, Colorado, since 1918, retired June 30 after 45 years of service in the Department. As noted in the July News Letter, Dr. Stiles was elected an emeritus member by vote of the Council earlier this year.

ZoBell, Claude E., Marine Microbiologist of La Jolla, California, is spending this year on sabbatical leave. He spent the first three months on the continent visiting laboratories in Denmark, Sweden, Norway, Netherlands, France and Switzerland. A serious lack of periodicals is noted due not only to lack of funds but to "dollar deficiencies." Dr. ZoBell was particularly interested in Ragnar Nilsson's Institute at Uppsala, Thjotta's Institute at Oslo, Kluyver's Laboratory at Delft and the Paris

Pasteur Institute. The balance of his year Dr. ZoBell will spend in England chiefly at Cambridge and at Rothamsted. "Much of human and scientific interest is being learned and we don't waste a lot of time eating."

NEWS ABOUT BOOKS: BOOK REVIEWS

Volume I of the ANNUAL REVIEW OF MICROBIOLOGY will be available for distribution on November 1, 1947. This is the first of the Microbiology series sponsored by Annual Reviews, Inc., and is being prepared under the active editorial direction of Professor Charles E. Clifton, Stanford University, Editor, and Professors H. A. Barker, University of California, and Sidney Raffel, Stanford University, Associate Editors. The Editorial Committee consists of: Dr. Monroe D. Eaton, Department of Public Health, Berkeley, California; Dr. Wallace E. Herrell, Mayo Clinic, Rochester, Minnesota; Dr. C. B. van Niel, Hopkins Marine Station, Pacific Grove, California; Dr. J. M. Sherman, Cornell University, Ithaca, New York; Dr. E. C. Stakman, University of Minnesota, St. Paul, Minnesota, and Dr. W. H. Taliaferro, University of Chicago, Chicago, Illinois.

The price of the volume, consisting of approximately 420 pages, will be \$6.00. The contents are as follows:

Morphology and Cytology of Protozoa, D. H. Wenrich
 Antigenic Variation in the Protozoa and Bacteria, J. A. Harrison
 Life Cycle of Malarial Parasites, C. G. Huff
 Variation in Phytopathogenic Fungi, C. M. Christensen, E. C. Stakman, and J. J. Christensen
 Variation in Phytopathogenic Viruses, L. O. Kunkel
 Some Aspects of the Problem of Growth Factors for Protozoa, A. Lwoff
 Bacterial Metabolism, D. D. Woods
 Nitrogen Metabolism, E. F. Gale
 Industrial Fermentations, M. J. Johnson
 Quaternary Ammonium Compounds, O. Rahn and W. P. Van Eseltine
 Antibiotics, R. G. Benedict and A. F. Langlykke
 Chemotherapeutic Agents, E. M. Lourie
 Immunochemistry, H. P. Treffers
 Some Aspects of Active Immunization, J. Freund
 Medical and Epidemiological Aspects of Enteric Infection, A. J. Weil
 The Rickettsiae, N. H. Topping and C. C. Shepard
 Respiratory Viruses, T. Francis, Jr.

In format, organization of subject matter, and treatment of the literature it is expected that the Annual Review of Microbiology will follow the pattern already established by the Annual Review of Biochemistry and the Annual Review of Physiology.

ANNUAL REVIEW OF BIOCHEMISTRY. Volume XVI. Edited by J. Murray Luck, with the assistance of Hubert S. Loring and Gordon MacKinney. Annual Reviews, Incorporated, Stanford University Post Office, California. (1947), 740 pages.

Little need be said about this book which continues and maintains the standard of excellence set by earlier volumes of this series. The volume contains twenty-five articles some of which deal with the rather definite problems of chemistry such as the sections on the chemistry of the carbohydrates, of the hormones, and of the steroids. On the other hand most chapters have some definite significance for microbiology and several are written by microbiologists or deal specifically with problems in our field. Among these last may be listed Phosphorus Compounds, by W. W. Umbreit, Water-Soluble Vitamins by D. W. Woolley, Marine Bacteriology by C. E. ZoBell and Bacterial Metabolism by D. D. Woods. The "Review" serves to emphasize the interdependence of the sciences as does perhaps no other publication. Where else can physical, organic and biological chemists, botanists, nutritionists, internists,

pharmacologists, and microbiologists meet so profitably to all science as they have in this sixteenth volume of "Annual Reviews."

SCIENCE AND PUBLIC POLICY. In five volumes. Prepared by the President's Scientific Research Board, John R. Steelman, Chairman. U. S. Government Printing Office, Washington 25, D.C. (1947). These five volumes containing in all 999 pages exclusive of forewords, title pages and the like may be purchased for \$1.90 and deal with (1) A Program for the Nation; (2) The Federal Research Program; (3) Administration for Research; (4) Manpower for Research; and, (5) The Nation's Medical Research. A "must" for the scientist concerned about the present status and future of science in the United States.

A new edition to the field of elementary textbooks is the 1947 revision by Williams G. Walter of Montana State College of GENERAL BACTERIOLOGY by D. B. Swingle, first published in 1940. This little book of 319 pages published by D. Van Nostrand Company, Incorporated of New York and Toronto is unusually well printed on heavy, smooth paper and is profusely illustrated with 172 excellent figures. Considerable possibility is afforded for class room amplification of the rather simple text by the provision at the end of each chapter of a series of well chosen questions. There are, for instance, 30 questions at the end of a 13 page discussion on "Pathogenic Bacteria." The instructor who prefers to use a bigger book will still do well to consult Swingle and profit from a study of its diagrams, plates and questions. Quite unlike a text we recently examined designed for nurses this text is good reading and not just a catalogue of data. It will attract rather than repel the student who uses it. --Leland W. Parr

Die Immunitätsforschung. Ergebnisse und Probleme in Einzeldarstellungen.

Herausgegeben von Prof. Dr. R. Doerr, Basel. Volume I: Antikörper, First Part, by R. Doerr, Basel. Volume II Das Komplement by R. Doerr, Basel. Springer-Verlag, Vienna, 1947.

The two volumes are the first indication of a revival, in our field, of the techniques of learned compilation, in which the German literature of the past excelled and which, in former times, contributed so much to make the German language an important tool of international relations in science.

The contents of the volume "Antibodies, part I" can be gauged from the main chapter headings: The cellular origin of antibodies - Attempts to produce antibody-like substances in vitro - The formation of antibodies as reaction of certain cells upon the antigenic stimulus - The antibody as serum protein - The antibody seen from the antigen (species specificity, artificially introduced chemo-specificity) - Antigen-antibody reactions in vitro. Thus this volume is essentially concerned with what is commonly known as serology. Antibacterial antibodies, and anaphylaxis are only incidentally mentioned, and allergy is entirely omitted to the considerable detriment of the treatment of such basic problems as the formation of antibodies and the mechanisms of antibody-antigen reactions. The more recent American and English publications are well represented and integrated. Thus a valuable and essentially impartial inventory of the present state of our knowledge is given, and critically - sometimes hypercritically - evaluated. The younger generation that approaches the problems of immunology from the basis of pure science will not always agree with the viewpoints of the author, who found by necessity his approach during the early development of immunology along essentially biological lines of thought. But the younger reader may learn from this presentation, that in the earlier periods the same problems occupied the minds as in these days, and that the refinements in technique have sometimes tended to cover lack of progress in the fundamentals by an abundance of detailed information.

From this point of view one may regret that this monograph is written in German and that, for this reason, access is restricted to the severely depleted ranks of those for whom German is a familiar vehicle of communication. However, this lack will not be much felt among the English speaking immunologists who can avail themselves of the "Specificity of Serological Reactions" from Landsteiner's masterhand.

The monograph on complement is, on the other hand, at the present the only comprehensive historical and factual account of the subject available. In it, the wealth of half a century's observational data is combined with presentation of the recent work from the laboratories of Heidelberger and Ecker, though in the latter respect the quantitative and purely chemical results are perhaps less extensively treated than would be desirable. This monograph is indeed a "must" for those interested in complement.

The presentation shows all the familiar traits of the many previous reviews and handbook articles of the author, among which the absence of data on the technical problems is both a weakness and an advantage. Both volumes contain a well selected and representative bibliography, which is particularly valuable to the American worker for its numerous references to European publications. The antibody volume contains well over a thousand, and the complement monograph approximately 300 references. --A. J. Weil

Porter, John Roger. Bacterial Chemistry and Physiology. 1946. 1,073 pages. \$12.00. New York: John Wiley & Sons, Inc.

Bacterial Chemistry and Physiology was designed by Porter as a text for undergraduates and graduate students for a course in physiology of bacteria. It is divided into ten chapters; first four dealing with the effects of the environment on bacteria, the fifth, the chemical composition of microorganisms, and the last five deal with enzymes, respiration, nutrition, and the effects of microorganisms on their environment. In preparing this book, Dr. Porter has made an extensive review of literature and has drawn considerably from this literature for material in his book. There are excellent bibliographies at the end of each chapter.

The first four chapters are designed primarily for students who may be lacking in background material and for that reason these chapters may be found to be elementary for students who are thoroughly familiar with the physico-chemical principles involved in the physiology of bacteria. The reviewer regards this portion of the book as excellent material for beginning students.

The last six chapters cover subject material in which the author himself is vitally interested and on which he has done a considerable amount of research. The subject material is treated very thoroughly and is suitable not only as a text for beginning students, but is also very useful as a reference book for advanced students or for individuals interested in research in the various phases of physiology. Chapter six dealing with enzymes and respiration, and chapter seven dealing with nutrition are particularly noteworthy. The material in these two chapters alone make the book worthwhile. Chapter ten dealing with microbial fermentation is also worthy of special mention. The material here is very well presented. The bibliography given in all of these chapters will be found extremely valuable to individuals who wish to review the literature concerning enzymes, respiration, nutrition, and fermentation.

A tremendous amount of work is involved in preparing a book in which such a wide variety of material has to be covered. Dr. Porter is to be complimented on a

task well done. The book fulfills a very definite need since the volumes prepared by Buchanan and Fulmer on the physiology of bacteria are getting quite old and something is needed to bring this subject matter up to date. --H. O. Halvorsen

EMERITUS MEMBERS

The names of the following members have been proposed to the Council for the status of emeritus member; (The emeritus member has all of the privileges of membership without payment of dues and may receive his Journals at \$7.00 should he elect to do so. Emeritus members are elected from those who have been active members of the SOCIETY for twenty-five or more years and have retired or are about to retire from active professional life.)

Dr. S. W. Sappington
Dr. Robert S. Breed

Dr. Frank W. Tilley
Miss Ruth S. Funk

An individual so elected by the Council does not become an emeritus member automatically. The status is proposed as an honor which the individual concerned may decline although it is extremely unlikely that this will ever occur. It is more than likely there are several members of the Society still classed as active members who should really be enrolled as emeritus members. If you know of any such individual please advise the Secretary-Treasurer of his name.

NEW MEMBERS

July 1 to October 30

- Abendroth, Margaret C., Dept. Bact. & Parasitology, Univ. of Chicago, Chicago, Ill.
 Abrams, Arthur, Box 46, Kensington, Maryland
 Acker, Robert F., 2719 Marine St., South Bend, Ind.
 Adams, Paul, Box 263, R.F.D., Pl. Grove, Utah
 Albert, Helen F., Scottish Rite Dormitory, Box 210, Austin, Texas
 Angulo, Juan J., Dept. Public Health, Cornell Med. College, 1300 York Ave., N.Y.C.
 Aragao, Henrique, Instituto Oswaldo Cruz, Caixa Postal 926, Rio de Janeiro, Brasil
 Assis, Arlindo de, 55 praca Floriano (9^o), Rio de Janeiro, D.F., Brasil
 Baer, Beatrice Shrager, 1064 W. 39th Pl., Los Angeles, Calif.
 Bagley, Royal A., Pre-Fab. #107, Logan, Utah
 Berman, Rose L., Food Res. Labs., 4814 33rd St., Long Island City, N.Y.
 Bever, James S., 1869 Chelton, St. Paul, Minn.
 Bhat, J. V., Microbiology Dept., St. Xavier's College, Bombay, India
 Blubaugh, Hiram E., 2125 Elk St., Lafayette, Ind.
 Bollen, W. B., Bact. Dept., Oregon State College, Corvallis, Ore.
 Bower, Clarence H., P. O. Box 186, Salt Lake City, Utah
 Briggs, Margaret, Dept. Agr. Bact., Univ. of Wis., Madison, Wis.
 Briody, Bernard A., Dept. Epidemiology, School of Pub. Health, Univ. of Mich.,
 Ann Arbor, Mich.
 Brough, Franklin K., 281 N. 2nd East, Logan, Utah
 Brough, Louise Ann, Camp Detrick, Frederick, Md.
 Cardon, Bartley P., College of Agr., Univ. of Arizona, Tucson, Ariz.
 Cassel, Wm. A., 3840 Baring St., Philadelphia, Pa.
 Chambers, Wm. C., P. O. Box 461, Ocala, Fla.
 Claxton, Nellie Helenia, 502 W. 149th St., New York, N.Y.
 Costa, Gobert Arango, Instituto Oswaldo Cruz, Caixa Postal 926, Rio de Janeiro, Brasil
 Craft, Jr., A. Burr, 4 Pleasant Pl., Canajoharie, N.Y.
 Curtis, Marilou B., Box 2730, Duke Hospital, Durham, N.C.
 Cury, Amaden, Instituto Oswaldo Cruz, Caixa Postal 926, Rio de Janeiro, Brasil
 Cushing, Rouvoo, 40 W. North Temple, Salt Lake City, Utah
 Dacres, William G., 1210 Highland Ave., Knoxville, Tenn.
 Davies, Warren L., % C. A. Delaney, R.F.D. 1, Middletown, Wis.
 Delcamp, Robert M., Dept. Chem. Engineering, Univ. of Cincinnati, Cincinnati, Ohio
 Denison, Jr., F. W., 1201 E. 28th St., Austin, Texas
 Douglas, Harriet G., 2065 Adelbert Rd., Babies and Childrens Hosp., Cleveland, Ohio
 Deupree, Norma Gay, 5724 Ellis Ave., Chicago, Ill.
 Flsden, F. R., 129 Chesterton Rd., Cambridge, England
 Fonseca, Olympio Oliveira Ribeiro de, Rua Marques de Olinda 18, Botafogo, Rio de
 Janeiro, Brasil
 Formal, Samuel B., 514 Public St., Providence, R.I.
 Fasco, Teresa Elvira, 181-23 Henley Rd., Jamaica Estates, Long Island, N.Y.
 Garner, W. G., 1376 28th St., Ogden, Utah
 Gaugel, Jane E., 645 East Ave., Lockport, N.Y.
 Gentzler, Anne Marie, 2724 Harrison St., Oakland, Calif.
 Gibson, Julia Wyatt, Box 15, Dept. Medicine, Univ. of Chicago, Chicago, Ill.
 Gilchrist, Sr., Sidney E., 105 S. State St., Salt Lake City, Utah
 Gilmour, C. M., Dept. Agr. Bact., Univ. Wis., Madison, Wis.
 Gomez V., Hernando, 718 Lawrence St., Ann Arbor, Mich.
 Graham, A. F., 133 Ellsworth Ave., Toronto, Canada
 Gregory, Kenneth Fowler, Dept. Agr. Bact., Agr. Hall 12, Univ. of Wis., Madison, Wis.
 Hansell, Joe 871 S. New Hampshire, Los Angeles, Calif.
 Harrison, Arthur P., 8001 Piney Branch Rd., Silver Spring, Md.
 Hatch, Melvin T., 545 N. 6th West, Provo, Utah

Hedlin, Robert A., Dept. Agr. Bact., Agr. Hall 12, Univ. of Wis., Madison, Wis.
Heiligman, Fred, 505 West 23rd St., Austin, Texas
Henderson, Mattie Pearl, Jackson Branch Lab., Box 841, Jackson, Tenn.
Hensley, Lois E., % Morrell Memorial Hospital, Lakeland, Fla.
Hildebrand, Eugene, Montana Deaconess Hospital, Great Falls, Mont.
Hofer, Jesse W., LaRibida, Jackson Park Sanitarium, E. 65th St. & So. Shore Drive,
Chicago, Ill.
Holder, Margaret C., 1 Rockledge Ct., 4065 Cote des Neiges Rd., Montreal, 25, P. Q.
Hood, Mary Noka, 1084 F.S.U., Tallahassee, Fla.
Hutton, William E., Box 109, La Jolla, Calif.
James, Harold D., 614 W. 5th St., Greenfield, Ind.
Jern, Helen Z., 255 Haven Ave., New York, N.Y.
Joy, Mary Elizabeth, Bur. of Labs., Mich. Dept. Health, Lansing, Mich.
Kamplain, Frank E., 3909 Boulevard Pl., Indianapolis, Ind.
Kann, Ellen Elise, Bact. Office, Ind. Univ., Bloomington, Ind.
Karbelnig, Manny J., 235 N. Mayfield Ave., Chicago, Ill.
Kebel, Arthur P., 190 Baldwin Ave., Jersey City, N.J.
Kempe, Lloyd L., 3534 Portland Ave., So., Minneapolis, Minn.
Kersey, Roger C., 919 Finkbine Park, Iowa City, Iowa
Kirby, Ruth A., 28 Sherman Place, Jersey City, N.J.
Koubek, Raymond F., Arnold, Neb.
Kramer, Norman, 2411 14th St., N.E., Washington, D.C.
Kreekis, Vera, 651 Duncan St., San Francisco, Calif.
Kurusz, John J., Bact. Lab., Bevo Bldg., Anheuser-Busch, Inc., St. Louis, Mo.
Kuselwitz, Leah, 142 W. Grand St., Elizabeth, N.J.
Lamont, Jessie M., L.D.S. Hospital, 8th Ave. and C St., Salt Lake City, Utah
Laudelout, Henri, Microbiology Dept., N.J. Agr. Exp. Station, New Brunswick, N.J.
Leao, A.E. de, Instituto Oswaldo Cruz, Caixa Postal 926, Rio de Janeiro, Brasil
LeBeau, Leon J., 2032 S. 11th St., Maywood, Ill.
Leibold, Armin A., Alabama Polytechnic Institute, P.O. Box 1710, Auburn, Alabama
Levine, Milton G., Institute of Experimental Medicine, 312 N. Boyle Ave., Los Angeles
Lewis, Mary N., 185 Gates Ave., Montclair, N.J.
Lindstrom, Eugene S., Dept. Agr. Bact., Univ. of Wis., Madison, Wis.
Luginbuhl, Roy E., 17 Woodland St., Rockville, Conn.
Lutjeharms, Wilhelm J., Dept. Microbiology, N.J. Agr. Exp. Station, New Brunswick
McKercher, D.G., N.Y. State Veterinary College, Cornell Univ., Ithaca, N.Y.
McMurtry, Clemons C., Dept. of Bact., Univ. of Ky., Lexington, Ky.
McOmie, Paul H., 105 S. State St., Salt Lake City, Utah
Magill, Thomas P., Cornell Univ. Med. College, 1300 York Ave., New York, N.Y.
Magnuson, Harold J., School of Public Health, Chapel Hill, N.C.
Marks, Morris S., 875 Park Ave., New York, N.Y.
Maskell, Kenneth Thomas, 3109 Gibbons Ave., Baltimore, Md.
Matt, Elizabeth C., 11 Wheelock St., Canajoharie, N.Y.
Mazzotta, Louis, Solex Labs., Inc., 396 15th St., Brooklyn, N.Y.
Menkes, Edith C., 80 Ft. Washington Ave., New York, N.Y.
Miller, I.M., Dept. Bact., Univ. of New Hampshire, Durham, N.H.
Minton, Jr., Sherman A., Dept. of Microbiology, Ind. Univ. Sch. of Med., Indianapolis
Miranda, Cassio, Instituto Oswaldo Cruz, Caixa Postal 926, Rio de Janeiro, Brasil
Moot, Elizabeth L., 1271 20th Ave., San Francisco, Calif.
Morris, J. Anthony, Disease Investigation Lab., Patuxent Res. Refuge, Laurel, Md.
Morse, Philip, 14 Prince St., Lacey Park, Hatboro, Pa.
Muniz, Julio, Instituto Oswaldo Cruz, Caixa Postal 926, Rio de Janeiro, Brasil
Nakano, James H., P. O. Box 1191, Stanford University, Calif.
Newhagen, Geraldine B., Wilson & Co., Res. & Technic., 42nd & Ashland Ave., Chicago
Niss, Hamilton F., 101 King Hall, Dept. Agr. Bact., Univ. Wis., Madison, Wis.

Nolan, Nina Lodge, Health Dept., City Hall, Amarillo, Texas
Noyes, Patricia, Box 644, Shidler, Okla.
Nylund, Milton E., 114 E. Haddon Ave., Oaklyn, N.J.
Pacheco, Genesio, Instituto Oswaldo Cruz, Caixa Postal 926, Rio de Janeiro, Brasil
Pack, Cneita, 2544 Highland Dr., Salt Lake City, Utah
Pack, Rosalind, Box 117, Farmington, Utah
Paperno, Seymour, 1338 $\frac{1}{2}$ Kellam Ave., Los Angeles, Calif.
Papperman, S. M., 1217 Glendale Ave., Dayton, Ohio
Para, Madureira, Fundacao Rockefeller, Caixa Postal 89, Rio de Janeiro, Brasil
Patty, Richard Earl, 112 S. Juliette, Manhattan, Kansas
Penna, H. A. Fundacao Rockefeller, Caixa Postal 49, Rio de Janeiro, Brasil
Powell, Arnold E., 48 Ellsworth Rd., Larchmont, N.Y.
Richards, Ronald B., 3303 State Ave., Kansas City, Kansas
Romansky, Monroe J., The George Washington Univ. Hospital, Washington, D.C.
Rubinstein, Moses I., 902 Flushing Ave., Brooklyn, N. Y.
Schaefer, Walter E., 257 Hewes St., Brooklyn, N.Y.
Schvey, Malcolm H., 300 Central Park West, New York, N.Y.
Sessions, Keith L., 280 B St., Salt Lake City, Utah
Shipe, Jr., Ernest L., 2707 E. 5th Ave., Knoxville, Tenn.
Siegrist, Urban J., St. Joseph College, Collegeville, Indiana
Simonsen, Winona Velma, 1453 Unitah Circle, Salt Lake City, Utah
Simpson, Georgie I., 428 N. Murray St., Madison, Wis.
Sinha, S. P., Govt. Vaccine Institute, Namkum, Ranchi, Bihar, India
Sister M. Herman Joseph Stitz, Maryknoll Sisters Motherhouse, Maryknoll, N.Y.
Smith, Ann, Bact. Dept., Ind. Univ., Bloomington, Ind.
Smith, James E., 10020 National Blvd., Los Angeles, Calif.
Souza-Araujo, H.C. de, Rua Marques de Pinedo, 84, Laranjeiras, Rio de Janeiro, Brasil
Sprague, Edith, 909 4th St., S.E., Minneapolis, Minn.
Starace, Jeremiah J., 661 77th St., Brooklyn, N.Y.
Starling, Dorothy Elizabeth, Southern Res. Institute, 917 S. 20th St., Birmingham, Ala.
Sugarman, Edward L., 450 Sutter St., San Francisco, Calif.
Sutherland, Violette C., 539 Wellesley St., Palo Alto, Calif.
Sweeley, H. Carlton, % Clarkson Chemical Co., P.O. Box 97, Williamsport, Pa.
Symopoulos, Demosthenes S., 141 N. 9th St., Newark, N.J.
Tabachnick, Joseph, Dept. of Food Technology, Univ. of Calif., Berkeley, Calif.
Thomas, John O., Cutter Labs., 4th & Parker Sts., Berkeley, Calif.
Tinker, Mary R., 56 West 106th St., New York, N.Y.
Tucker, Thelma T., 524 Irving St., Winston-Salem, N.C.
Ullman, Arthur, 1731 E. 29th St., Brooklyn, N.Y.
Uyeda, Carl Kaoru, Briston Biological Labs., Inc., Bact. Res., Thompson Rd., Syracuse, N.Y.
Vail, Ruth, 535 4th Ave., Salt Lake City 3, Utah
Villela, Gilberto G., Instituto Oswaldo Cruz, Caixa Postal 926, Rio de Janeiro, Brasil
Volcani, B.E., Sieff Res. Institute, Rehovoth, Palestine
Warner, George S., 3926 Cloverhill Rd., Baltimore, Md.
Wenzel, Marie E., 379 Main St., Laurel, Md.
West, Raymond Henry, Lab., Children's Hospital, Akron, Ohio
Wilburn, Frances, 301 N. Myers St., Burbank, Calif.
Winslow, Alice E., Res. Lab., Oscar Mayer & Co., Madison, Wis.
Wittler, Ruth G., Institute of Pathology, Western Reserve Univ., Cleveland, Ohio
Wyman, Joan D., Bact. Dept., Colonel Belcher Hospital, Calgary, Alberta, Canada

